

## ABSTRACT

It relates to equipment and a process for producing carbonated water of a high-concentration inexpensively and easily.

Since the equipment for producing the carbonated water and the process for producing the carbonated water using a static mixer having 20 to 100 elements realize production of the carbonated water of the high-concentration inexpensively and easily, they can be applied particularly effectively for so-called one pass production process.

Moreover, the carbonated water of a higher concentration can be produced further effectively by providing a value  $Re \times N$  of 100,000 to 2,000,000, wherein  $N$  is a number of elements of the static mixer and  $Re$  is a Reynolds number when a mixture of water and a carbonic acid gas flow in the static mixer.